C05027274
Approved for Release: 2024/06/10 C05027274

CONFIDENTIAL

HANDLE VIA COMINT CHANNELS ONLY

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ZCZCNKA309 KB 173HAB047
RR YSNKLDC RN4 ACT: NRL VIA 3015.....
DE YFNHRA 3 3440846
ZKZK RR NRL DE
R 0909Z57
FM [redacted]
TO YSNKLDC/NRO
INFO COMNAVSECGRU

ZEM
C O N F I D E N T I A L COMINT CHANNELS
SISS ZULU (U)
ATTN: MR. R.D. MAYB CODE 561
1. DURING HIS TAD VISIT TO HRB-SINGER, CTC LENKER LEARNED THAT SEL RECOGNIZES THAT THEIR MAGNETIC TAPE TRSCSPORTS GENERATE AN UNDESIRABLE GLITCH WHEN AN ATTEMPT IS MADE TO COPY RECORDS FROM ONE TRANSPORT TO ANOTHER. THE WRITE TRANSPORT GENERATES A MEANINGLESS ONE-BIT FRAME IN THE MIDDLE OF THE INTER RECORD GAP EACH TIME THE READ TRANSPORT RECEIVES THE READ COMMAND. THIS GLITCH RENDERS PROGRAM U7 (EDIT DATA TAPE) USELESS SINCE THE COPIED TAPE CONTAINS NUMEROUS PARITY ERRORS WHEN READ BY IBM OR CDC MAGNETIC TAPE SYSTEMS.
2. THE SEL SOLUTION TO THIS PROBLEM IS TO KEEP THE WRITE STATUS ON THE TRANSPORT ENABLED WHILE THE READ TRANSPORT IS READING. THEIR MODIFICATION WILL MEAN THAT WRITE STATUS IS NOT REMOVED UNTIL A BACKSPACE OR REWIND COMMAND IS RECEIVED. BECAUSE OF THIS CHANGE ERRONEOUS DATA TAPES CANNOT BE EDITED UNTIL HRB-SINGER MODIFIES EXECUTIVE EDITOR, FIND, AND PUT. IN ORDER THAT THESE PROGRAMS COULD BE USED, IT WAS NECESSARY TO BYPASS THE SEL MODIFICATION IN THE SYSTEM FOR THE [redacted] WHEN OUR MACHINES ARE MODIFIED, WE WOULD ALSO HAVE TO BYPASS THIS MODIFICATION.
3. AS A SOLUTION TO THE ABOVE DELAY, A MODIFICATION CAN EASILY BE ADDED TO SEL'S CHANGES WHICH WOULD ELIMINATE THE NEED FOR ANY SOFTWARE CHANGES AND AT THE SAME TIME ELIMINATE THE ERRONEOUS GLITCH. BRIEFLY, THIS MODIFICATION WILL KILL WRITE STATUS ON THE SELECTED MAGNETIC TAPE UNIT WHEN IT IS GIVEN A READ, ADVANCE END OF FILE, ORNADVANCE RECORD COMMAND. THIS MODIFICATION WILL REQUIRE 2 NEW
AES, 1 CABLE DRIVER, AND 1 CABLE TERMINATOR IN EACH MAGNETIC TAPE UNIT; AND 1 GATE, 2 INVERTORS, 1 CABLE DRIVER, AND 1 CABLE TERMINATOR IN THE TAPE CONTROL UNIT. FULL WIRING DETAILS OF THIS MODIFICATION CAN BE PROVIDED AFTER WE RECEIVE A COPY OF THE FOLLOWING SEL PRINTS:
A. 80820-6 (ALL SHEETS)
B. 80822-6 (ALL SHEETS)
4. REQUEST THAT THE ABOVE MODIFICATION BE APPROVED AND SEL'S CHANGES FOR OUR MACHINE BE EXPEDITED TO US SB THAT WE CAN USE U7 PROGRAM TO EDIT OUR DATA TAPES.
590

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RR YEKHDH
DE YFNHRA 3 3440846
ZKZK RR NRL DE
R 0909457
FM [redacted]
TO YSNKLDC/NRO
INFO COMNAVSECGRU
ZEM
~~C O N F I D E N T I A L~~ COMINT CHANNELS
SISS ZULU (U)
ATTN: MR. R.D. MAYO CODE 5614

Answer sent 12/19/68 PLH

1. DURING HIS TAD VISIT TO HRB-SINGER, CTC LENKER LEARNED THAT SEL RECOGNIZES THAT THEIR MAGNETIC TAPE TRANSPORTS GENERATE AN UNDESIRABLE GLITCH WHEN AN ATTEMPT IS MADE TO COPY RECORDS FROM ONE TRANSPORT TO ANOTHER. THE WRIHE TRANSPORT GENERATES A MEANINGLESS ONE-BIT FRAME IN THE MIDDLE OF THE INTER RECORD GAP EACH TIME THE READ TRANSPORT RECEIVES THE READ COMMAND. THIS GLITCH RENDERS PROGRAM U7 (EDIT DATA TAPE) USELESS SINCE THE COPIED TAPE CONTAINS NUMEROUS PARITY ERRORS WHEN READ BY IBM OR CDC MAGNETIC TAPE SYSTEMSM
2. THE SEL SOLUTIMN TO THIS PROBLEM IS TO KEEP THE WRIHE STATUS ON THE TRANSPORT ENABLED WHILE THE READ TRANSPORT IS READING. THEIR MODIFICATION WILL MEAN THAT WRITE STATUS IS NOT REMOVED UNTIL A BACKSPACE OR REWIND COMMAND IS RECEIVED. BECAUSE OF THIS CHANGE ERRONEOUS DATA TAPES CANNOT BE EDITED UNTIL HRB-SINGER MODIFIES EXECUTIVE EDITOR, FIND, AND PUT. IN ORDER THAT THESE PROGRAMS COUPD BE USED, IT WAS NECESSARY TO BYPASS THE SEL MODIFICATION IN THE SYSTEM FOR THE [redacted] WHEN OUR MACHINES ARE MODIFIED, WE WOULD ALSO HAVE TO BYPASS THIS MODIFICATION.

Siss Zulu

COMNAVSECGRU ROUTING

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| G | GB | GC | GC1 | GD | GF | GH | GX | GM | GP |
| GT | GX | G10 | G12 | G20 | G30 | G40 | G50 | G51 | G52 |
| G53 | G524 | G60 | G61 | G62 | G63 | G64 | | | SO FISR |

NAVSECSTA ROUTING

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| N00 | N01 | N10 | N20 | N30 | N40 | N50 | N60 | N70 |
| N80 | N90 | NED | | | | BUPERS | NSEH | N6 |

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3. AS A SOLUTION TO THE ABOVE DELAY, A MODIFICATIMN CAN EASILY BE ADDED TO SEL'S CHANGES WHICH WOULD ELIMINATE THE NEED FOR ANY SMFTWARE CHANGES AND AT THE SAME TIME ELIMINATE THE ERRONEOUS GLITCH. BRIEFLY, THIS MODIFICATION WILL KILL WRITE STATUS ON THE SELECTED MAGNETIC TAPE UNIT WHEN IT IS GIVEN A READ, ADVANCE END OF FILE, ORNADVANCE RECORD COMMAND. THIS MODIFICATION WILL REQUIRE 2 NEW GATES, 1 CABLE DRIVER, AND 1 CABLE TERMINATOR IN EACH MAGNETIC TAPE UNIT; AND 1 GATE, 2 INVERTORS, 1 CABLE DRIVER, AND 1 CABLE TERMINATOR IN THE TAPE CONTROL UNIT. FULL WIRING DETAILS OF THIS MODIFICATIMN CAN XE PROVIDED AFTER WE RECEIVE A COPY OF THE FOLLOWING SEL PRINTS:

A. 80020-6 (ALL SHEETS)
B. 80022-6 (ALL SHEETS)

4. REQUEST THAT THE ABOVE MODIFICATION BE APPROVED AND SEL'S CHANGES FOR OUR MACHINE BE EXPEDITED TO US SM THAT WE CAN USE U7 PROGRAM TO EDIT OUR DATA TAPESM 390



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F. V. HELLRICH 3628

19 Dec 1968

X

NRL

XXXXX VIA NSG

TAPE TRANSPORT AND TAPE CONTROL UNIT MODIFICATION

REF: (A) YOUR MSG 090945Z DEC 68

1. COMPLETELY CORRECTED AND UPDATED PRINTS (SEL 80020-6 ALL SHEETS AND 80022-6 ALL SHEETS) ARE NOT YET AVAILABLE FROM SEL. THE BEST ESTIMATE IS THAT THEY SHOULD BE AVAILABLE IN ABOUT TWO WEEKS.

2. AS SOON AS A COPY OF THESE PRINTS BECOME AVAILABLE, THEY WILL BE SENT TO YOU.

3. PLSE SUBMIT COMPLETE DETAILS AFTER RECEIPT OF PRINTS SO THAT THE PROPOSED MODIFICATION MAY BE REVIEWED.

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